



PTO/SB/08a/b (08-03)  
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| Substitute for form 1449A/B/PTO |   |    |   | Complete if Known      |                        |
|                                 |   |    |   | Application Number     | 09/885,451-Conf. #3390 |
|                                 |   |    |   | Filing Date            | June 20, 2001          |
|                                 |   |    |   | First Named Inventor   | Thomas L. Ritzdorf     |
|                                 |   |    |   | Art Unit               | 1742                   |
|                                 |   |    |   | Examiner Name          | W. T. Leader           |
| Sheet                           | 1 | of | 3 | Attorney Docket Number | 291958170US2           |

| U.S. PATENT DOCUMENTS |           |  |                                |  |   |
|-----------------------|-----------|--|--------------------------------|--|---|
| Examiner Initials*    | Cite No.* | Document Number<br>Number-Kind Code <sup>3</sup> (# known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
| PL                    |           | US-3,727,620   | 04/1973                        | Orr  |   |
|                       |           | US-3,770,598   | 11/1973                        | Creutz   |   |
|                       |           | US-4,027,686   | 06-07-1977                     | Shortes et al.                                     |   |
|                       |           | US-4,110,176   | 08-29-1978                     | Creutz, deceased et al.                            |   |
|                       |           | US-4,113,492   | 09-12-1978                     | Sato et al.  |   |
|                       |           | US-4,315,059   | 02-09-1982                     | Raistrick et al.                                   |   |
|                       |           | US-4,336,114   | 06-22-1982                     | Mayer et al.                                       |   |
|                       |           | US-4,376,685   | 03-15-1983                     | Watson   |   |
|                       |           | US-4,405,416   | 09-20-1983                     | Raistrick et al.                                   |   |
|                       |           | US-4,428,815   | 01-31-1984                     | Powell et al.                                      |   |
|                       |           | US-4,435,268   | 03-06-1984                     | Johnston   |   |
|                       |           | US-4,489,740   | 12-25-1984                     | Rattan et al.                                      |   |
|                       |           | US-4,510,176   | 04-09-1985                     | Cuthbert et al.                                    |   |
|                       |           | US-4,518,678   | 05-21-1985                     | Allen  |   |
|                       |           | US-4,519,846   | 05-28-1985                     | Aigo   |   |
|                       |           | US-4,693,805   | 09-15-1987                     | Quazi  |   |
|                       |           | US-4,732,765   | 03-22-1988                     | Brewer   |   |
|                       |           | US-4,781,801   | 11-01-1988                     | Frisby   |   |
|                       |           | US-4092176   | 05-30-1978                     | Kozai et al.                                       |   |
|                       |           | US-5,039,381   | 08-13-1991                     | Mullarkey  |   |
|                       |           | US-5,055,425   | 10-08-1991                     | Leibovitz et al.                                   |   |
|                       |           | US-5,084,412   | 01-01-2001                     | YASUSHI NAKASAKI                                   |   |
|                       |           | US-5,091,339   | 01-01-2001                     | DAVID H. CAREY                                     |   |
|                       |           | US-5,145,571   | 01-01-2001                     | RICHARD H. LANE                                    |   |
|                       |           | US-5,155,336   | 10-13-1992                     | Gronet et al.                                      |   |
|                       |           | US-5,160,600   | 01-01-2001                     | GORDHANBHAI N. PATEL                               |   |
|                       |           | US-5,162,260   | 11-10-1992                     | Leibovitz et al.                                   |   |
|                       |           | US-5,222,310   | 08-29-1993                     | Thompson et al.                                    |   |
|                       |           | US-5,224,504   | 07-06-1993                     | Thompson et al.                                    |   |
|                       |           | US-5,230,743   | 07-27-1993                     | Thompson et al.                                    |   |
|                       |           | US-5,252,807   | 10-12-1993                     | Chizinsky  |   |
|                       |           | US-5,256,274   | 01-01-2001                     | JAIME PORIS  |   |
|                       |           | US-5,259,407   | 11-09-1993                     | Tuchida et al.                                     |   |
|                       |           | US-5,277,985   | 01-01-2001                     | JIAN LI  |   |
|                       |           | US-5,290,381   | 03-01-1994                     | Hayashida et al.                                   |   |
|                       |           | US-5,316,974   | 05-31-1994                     | Crank  |   |
|                       |           | US-5,328,589   | 07-12-1994                     | Martin   |   |
|                       |           | US-5,349,978   | 09-27-1994                     | Sago et al.  |   |
|                       |           | US-5,368,711   | 11-29-1994                     | Porta  |   |
|                       |           | US-5,377,708   | 01-03-1995                     | Bergman et al.                                     |   |
|                       |           | US-5,397,741   | 01-01-2001                     | LORETTA J. O'CONNOR                                |   |
|                       |           | US-5,429,733   | 07-04-1995                     | Ishida   |   |
|                       |           | US-5,441,618   | 01-01-2001                     | KUNIHIRO MATSUDA                                   |   |
|                       |           | US-5,447,599   | 01-01-2001                     | JIAN LI  |   |
|                       |           | US-5,608,943   | 03-11-1997                     | Konishi et al.                                     |   |
| PL                    |           | US-5,625,170   | 04-29-1997                     | Porta  |   |

|                    |           |                 |        |
|--------------------|-----------|-----------------|--------|
| Examiner Signature | W. Leader | Date Considered | 6/7/05 |
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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of

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| Examiner Name        | W. T. Leader           |

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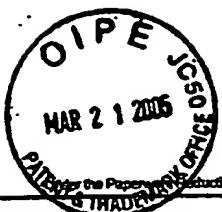
|    |              |            |                       |  |
|----|--------------|------------|-----------------------|--|
| PT | US-5,651,823 | 01-01-2001 | MICHAEL L. PARODI     |  |
|    | US-5,651,865 | 07-29-1997 | Sellers               |  |
|    | US-5,674,787 | 01-01-2001 | BIN ZHAO              |  |
|    | US-5,677,244 | 01-01-2001 | RAMNATH VENKATRAMAN   |  |
|    | US-5,693,563 | 01-01-2001 | SU-PING TEONG         |  |
|    | US-5,705,223 | 01-06-1998 | Bunkofske             |  |
|    | US-5,707,466 | 01-01-2001 | HARRY A. ATWATER      |  |
|    | US-5,718,813 | 02-17-1998 | Drummond et al.       |  |
|    | US-5,723,028 | 03-03-1998 | Peris                 |  |
|    | US-5,747,355 | 01-01-2001 | TOSHIMITSU KONUMA     |  |
|    | US-5,763,953 | 01-01-2001 | TADASHI IJIMA         |  |
|    | US-5,779,799 | 01-01-2001 | SHAWN D. DAVIS        |  |
|    | US-5,801,444 | 01-01-2001 | MOHAMED O. ABOELFOTOH |  |
|    | US-5,814,557 | 01-01-2001 | RAMNATH VENKATRAMAN   |  |
|    | US-5,873,992 | 01-01-2001 | JOHN H. GLEZEN        |  |
|    | US-5,937,142 | 01-01-2001 | MEHRDAD M. MOSLEHI    |  |
|    | US-6,015,749 | 01-01-2001 | CHUNG-SHI LIU         |  |
|    | US-6,037,257 | 01-01-2001 | TONY CHIANG           |  |
|    | US-6,072,163 | 06-06-2000 | Armstrong et al.      |  |
|    | US-6,099,712 | 01-01-2001 | THOMAS L. RITZDORF    |  |
|    | US-6,100,195 | 01-01-2001 | LAP CHAN              |  |
|    | US-6,121,141 | 01-01-2001 | CHRISTY MEI-CHU WOO   |  |
|    | US-6,123,825 | 01-01-2001 | CYPRIAN E. UZOH       |  |
|    | US-6,126,989 | 01-01-2001 | KARL ROBINSON         |  |
|    | US-6,136,163 | 01-01-2001 | ROBIN CHEUNG          |  |
|    | US-6,139,697 | 01-01-2001 | LIANG-YUH CHEN        |  |
|    | US-6,184,121 | 01-01-2001 | LEENA P. BUCHWALTER   |  |
| PT | US-6,184,137 | 01-01-2001 | PEIJUN DING           |  |

### FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No.† | Foreign Patent Document<br>Country Code‡ Number‡-Kind Code‡ (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | †‡ |
|--------------------|-----------|--|--------------------------------|--|---|----|
| WL                 |           | EP-0 681 673-A2  | 12-02-1998                     | Intl. Business Machines<br>Group                   |   |    |
|                    |           | JP-63118093  | 05/1988                        | Tanaka Electron Ind Co Ltd                         |   |    |
|                    |           | JP-04131395  | 05/1992                        | Toshiba Corp                                       |   |    |
|                    |           | JP-04280993  | 10/1992                        | Electroplating Eng of Japan                        |   |    |
|                    |           | JP-58182823  | 10/1983                        | Nippon Denki KK                                    |   |    |
|                    |           | JP-6017291   | 01/1994                        | Nec Corp   |   |    |
| WL                 |           | WO-97/12079  | 04/1997                        | Crafts et al.                                      |   |    |

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| NON PATENT LITERATURE DOCUMENTS |                       |   |  |  |  |
|---------------------------------|-----------------------|---|--|--|--|
| Examiner Initials               | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |  |  |
| W                               |                       | Vertez Online. Copyright, "Products Overview," 1996-1998, 5 pgs. Month of publication not available   |  |  |  |
|                                 |                       | SINGER, Peter, "Wafer Processing," Semiconductor International, June 1998, p 70.  |  |  |  |
|                                 |                       | Semitool, Inc. COPYRGHT, "Metallization & Interconnect," 1998, 4 pgs. Month of publication not available.   |  |  |  |
|                                 |                       | PITNEY, Kenneth E., "NEY Contact Manual," Electrical Contact for Low Energy Uses, 1973.   |  |  |  |
|                                 |                       | Patent Abstracts of Japan 04-120290, 21 April 1992.   |  |  |  |
|                                 |                       | Lucio Columbo, "Wafer Back Surface Film Removal," Central R&D, SGS-Thompson, Microelectronics, Agrate, Italy, 6 pgs. No date available  |  |  |  |
| W                               |                       | Laurell Technologies Corporation, "Two control configurations available -- see WS 400 or SX-400 Lite." October 19, 1998, 6 pgs  |  |  |  |

<sup>2</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

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